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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kalpana Kamath et al.
Serial No. : 10/814,079
Filed : March 30, 2004
Title : EMBOLIZATION

Art Unit : 3731
Examiner : Unknown

MAIL STOP AMENDMENT

Commissioner for Patents
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Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 10/8/04

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October 8, 2004

Date of Deposit

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-447001	Application No. 10/814,079
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Kalpana Kamath et al.	
		Filing Date March 30, 2004	Group Art Unit 3731

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2,609,347	09/02/1952	Wilson			
	AB	3,663,470	05/16/1972	Nishimura et al.			
	AC	3,737,398	06/05/1973	Yamaguchi			
	AD	3,957,933	05/18/1976	Egli et al.			
	AE	4,025,686	05/24/1977	Zion			
	AF	4,055,377	10/25/1977	Erickson et al.			
	AG	4,076,640	02/28/1978	Forgensi et al.			
	AH	4,098,728	07/04/1978	Rosenblatt			
	AI	4,110,529	08/29/1978	Stoy			
	AJ	4,191,672	03/04/1980	Salome et al.			
	AK	4,198,318	04/15/1980	Stowell et al.			
	AL	4,243,794	01/06/1981	White et al.			
	AM	4,246,208	01/20/1981	Dundas			
	AN	4,266,030	05/05/1981	Tschang et al.			
	AO	4,268,495	05/19/1981	Muxfeldt et al.			
	AP	4,271,281	06/02/1981	Kelley et al.			
	AQ	4,413,070	11/01/1983	Rembaum			
	AR	4,427,794	01/24/1984	Lange et al.			
	AS	4,428,869	01/31/1984	Munteanu et al.			
	AT	4,429,062	01/31/1984	Pasztor et al.			
	AU	4,442,843	04/17/1984	Rasor et al.			
	AV	4,444,961	04/24/1984	Timm			
	AW	4,452,773	06/05/1984	Molday			
	AX	4,456,693	06/26/1984	Welsh			
	AY	4,459,145	07/10/1984	Elsholz			
	AZ	4,472,552	09/18/1984	Blouin			
	AAA	4,477,255	10/16/1984	Pasztor et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	4,492,720	01/08/1985	Moiser			
	ACC	4,522,953	06/11/1985	Barby et al			
	ADD	4,542,178	09/17/1985	Zimmermann et al.			
	AEE	4,551,132	11/05/1985	Pasztor et al.			
	AFF	4,551,436	11/05/1985	Johnson et al.			
	AGG	4,573,967	03/04/1986	Hargrove et al.			
	AHH	4,622,362	11/11/1986	Rembaum			
	AII	4,623,706	11/18/1986	Timm et al.			
	AJJ	4,657,756	04/14/1987	Rasor et al.			
	AKK	4,661,137	04/28/1987	Garnier et al.			
	ALL	4,663,358	05/05/1987	Hyon et al.			
	AMM	4,671,954	06/09/1987	Goldberg et al.			
	ANN	4,675,113	06/23/1987	Graves et al.			
	AOO	4,678,814	07/07/1987	Rembaum			
	APP	4,678,710	07/07/1987	Sakimoto et al.			
	AQQ	4,680,320	07/14/1987	Uku et al.			
	ARR	4,681,119	07/21/1987	Rasor et al.			
	ASS	4,742,086	05/03/1988	Masamizu et al			
	ATT	4,743,507	05/10/1988	Franses et al.			
	AUU	4,772,635	09/20/1988	Mitschker et al.			
	AVV	4,782,097	11/01/1988	Jain et al.			
	AWW	4,789,501	12/06/1988	Day et al.			
	AXX	4,795,741	01/03/1989	Leshchiner et al.			
	AYY	4,801,458	01/31/1989	Hidaka et al.			
	AZZ	4,804,366	02/14/1989	Zdeb et al.			
	AAAA	4,819,637	04/11/1989	Dormandy, Jr. et al.			
	ABBB	4,822,535	04/18/1989	Ekman et al.			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACCC	4,833,237	05/23/1989	Kawamura et al			
	ADDD	4,850,978	07/25/1989	Dudar et al.			
	AEEE	4,859,711	08/22/1989	Jain et al.			
	AFFF	4,863,972	09/05/1989	Itagaki et al.			
	AGGG	4,929,400	05/29/1990	Rembaum et al.			
	AHHH	4,933,372	06/12/1990	Feibush et al			
	AIII	4,954,399	09/04/1990	Tani et al			
	AJJJ	4,981,625	01/01/1991	Rhim et al.			
	AKKK	4,990,340	02/05/1991	Hidaka et al.			
	ALLL	4,999,188	03/12/1991	Sloldovnik et al.			
	AMMM	5,007,940	04/16/1991	Berg			
	ANNN	5,011,677	04/30/1991	Day et al.			
	AOOO	5,032,117	07/16/1991	Motta			
	APPP	5,034,324	07/23/1991	Shinozaki et al.			
	AQQQ	5,047,438	09/10/1991	Feibush et al.			
	ARRR	5,079,274	01/07/1992	Schneider et al.			
	ASSS	5,106,903	04/21/1992	Vanderhoff et al.			
	ATTT	5,114,421	05/19/1992	Polak			
	AUUU	5,116,387	05/26/1992	Berg			
	AVVV	5,120,349	06/09/1992	Stewart et al.			
	AWWW	5,125,892	06/30/1992	Drudik			
	AXXX	5,147,631	09/15/1992	Glajch et al.			
	AYYY	5,147,937	09/15/1992	Frazza et al.			
	AZZZ	5,149,543	09/22/1992	Cohen et al.			
	AAAAA	5,158,573	10/27/1992	Berg			
	ABBBB	5,171,214	12/15/1992	Kolber et al.			
	ACCCC	5,171,217	12/15/1992	March et al.			

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	ADDDD	5,190,766	03/02/1993	Ishihara			
	AEEEE	5,202,352	04/13/1993	Okada et al.			
	AFFFF	5,216,096	06/01/1993	Hattori et al.			
	AGGGG	5,253,991	10/19/1993	Yokota et al.			
	AHHHH	5,260,002	11/09/1993	Wang			
	AIIII	5,262,176	11/16/1993	Palmacci et al.			
	AJJJJ	5,288,763	02/22/1994	Li et al.			
	AKKKK	5,292,814	03/08/1994	Bayer et al.			
	ALLLL	5,302,369	04/12/1994	Day et al.			
	AMMMM	5,314,974	05/24/1994	Ito et al.			
	ANNNN	5,316,774	05/31/1994	Eury et al.			
	AOOOO	5,344,452	09/06/1994	Lemperle			
	APPPP	5,344,867	09/06/1994	Morgan et al.			
	AQQQQ	5,354,290	10/11/1994	Gross			
	ARRRR	5,369,133	11/29/1994	Ihm et al.			
	ASSSS	5,369,163	11/29/1994	Chiou et al.			
	ATTTT	5,369,710	06/17/1997	Lo et al.			
	AUUUU	5,382,260	01/17/1995	Dormandy, Jr. et al.			
	AVVVV	5,384,124	01/24/1995	Courteille et al.			
	AWWWW	5,397,303	03/14/1995	Sancoff et al.			
	AXXXX	5,398,851	03/21/1995	Sancoff et al.			
	AYYYY	5,403,870	04/04/1995	Gross			
	AZZZZ	5,417,982	05/23/1995	Modi			
	AAAAA	5,431,174	07/11/1995	Knute			
	BBBBB	5,435,645	07/25/1995	Faccioli et al.			
	CCCCC	5,456,693	10/10/1995	Conston et al.			
	ADDDDD	5,468,801	11/21/1995	Antonelli et al.			

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	AEEEEEE	5,469,854	11/28/1995	Unger et al.			
	AFFFFF	5,476,472	12/19/1995	Dormandy, Jr. et al.			
	AGGGGC	5,484,584	01/16/1996	Wallace et al.			
	AHHHHH	5,490,984	02/13/1996	Freed			
	AIIIII	5,494,682	02/27/1996	Cohen et al.			
	AJJJJJ	5,494,940	02/27/1996	Unger et al.			
	AKKKKK	5,512,604	04/30/1996	Demopolis			
	ALLLLL	5,514,090	07/07/1996	Kriesel et al.			
	AMMMMM	5,525,334	06/11/1996	Ito et al.			
	ANNNNN	5,534,589	07/09/1996	Hager et al.			
	AOOOOC	5,541,031	07/30/1996	Yamashita et al.			
	APPPPP	5,542,935	08/06/1996	Unger et al.			
	AQQQQQ	5,553,741	09/10/1996	Sancoff et al.			
	ARRRRR	5,556,610	09/17/1996	Yan et al.			
	ASSSSS	5,556,931	09/17/1996	Cercone et al.			
	ATTTTT	5,558,255	09/24/1996	Sancoff et al.			
	AUUUUU	5,558,822	09/24/1996	Gitman et al.			
	AVVVVV	5,558,856	09/24/1996	Klaveness et al.			
	AWWWWW	5,559,266	09/24/1996	Klaveness et al.			
	AXXXXX	5,567,415	10/22/1996	Porter			
	AYYYYY	5,569,193	10/29/1996	Hofstetter et al.			
	AZZZZZ	5,569,449	10/29/1996	Klaveness et al.			
	AAAAAA	5,569,468	10/29/1996	Modi			
	ABBBBB	5,571,182	11/05/1996	Ersek et al.			
	ACCCCC	5,580,575	12/03/1996	Unger et al.			
	ADDDDD	5,583,162	12/10/1996	Li et al.			
	AEEEEEE	5,585,112	12/17/1996	Unger et al.			

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U.S. Patent Documents							
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	AFFFFF	5,595,821	01/21/1997	Hager et al.			
	AGGGGG	5,622,657	04/22/1997	Takada et al.			
	AHHHHH	5,624,685	04/29/1997	Takahashi et al.			
	AIIIII	5,635,215	06/03/1997	Boschetti et al.			
	AJJJJJ	5,637,087	06/10/1997	O'Neil et al.			
	AKKKKK	5,639,710	07/17/1997	Lo et al.			
	ALLLLL	5,648,095	07/15/1997	Illum et al.			
	MMMMMM	5,648,100	07/15/1997	Boschetti et al.			
	ANNNNN	5,650,116	07/22/1997	Thompson			
	AOOOOO	5,651,990	01/29/1997	Takada et al.			
	APPPPP	5,653,922	08/05/1997	Li et al.			
	AQQQQQ	5,657,756	08/19/1997	Vrba			
	ARRRRR	5,681,576	10/28/1997	Henry			
	ASSSSS	5,715,824	02/10/1998	Unger et al.			
	ATTTTT	5,695,480	12/09/1997	Evans et al.			
	AUUUUU	5,695,740	12/09/1997	Porter			
	AVVVVV	5,698,271	12/16/1997	Liberti et al.			
	WWWWWW	5,701,899	12/30/1997	Porter			
	AXXXXX	5,716,981	02/10/1998	Hunter et al.			
	AYYYYY	5,718,884	02/17/1998	Klaveness et al.			
	AZZZZZ	5,723,269	03/03/1998	Akagi et al.			
	AAAAAA	5,725,534	03/10/1998	Rasmussen			
	ABBBBB	5,746,734	05/05/1998	Dormandy, Jr. et al.			
	ACCCCC	5,752,974	05/19/1998	Rhee et al.			
	DDDDDD	5,760,097	06/02/1998	Li et al.			
	AEEEEEE	5,766,147	06/16/1998	Sancoff et al.			
	AFFFFF	5,770,222	06/23/1998	Unger et al.			

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	GGGGGG	5,779,668	07/14/1998	Grabenkort			
	HHHHHH	5,785,642	07/28/1998	Wallace et al.			
	IIIIII	5,785,682	07/28/1998	Grabenkort			
	AJJJJJ	5,792,478	08/11/1998	Lawin et al.			
	KKKKKK	5,795,562	08/18/1998	Klaveness et al.			
	LLLLLL	5,797,953	08/25/1998	Tekulve			
	MMMMM	5,807,323	09/15/1998	Kriesel et al.			
	NNNNNN	5,813,411	09/29/1998	Van Bladel et al.			
	OOOOOC	5,823,198	10/20/1998	Jones et al.			
	APPPPP	5,827,502	10/27/1998	Klaveness et al.			
	QQQQQQ	5,827,531	10/27/1998	Morrison et al.			
	RRRRRR	5,830,178	11/03/1998	Jones et al.			
	ASSSSS	5,833,361	11/10/1998	Funk			
	TTTTTT	5,846,518	12/08/1998	Yan et al.			
	UUUUUU	5,853,752	12/29/1998	Unger et al.			
	VVVVVV	5,855,615	01/05/1999	Bley et al.			
	WWWW	5,863,957	01/26/1999	Li et al.			
	XXXXXX	5,876,372	03/02/1999	Grabenkort et al.			
	YYYYYY	5,877,224	03/02/1999	Brocchini et al.			
	ZZZZZZ	5,885,547	03/23/1999	Gray			
	AAAAAA	5,885,216	03/29/1999	Evans, III et al.			
	BBBBBB	5,888,546	03/30/1999	Ji et al.			
	CCCCCC	5,894,022	04/13/1999	Ji et al.			
	DDDDDD	5,899,877	04/04/1999	Leibitzki et al.			
	EEEEEE	5,891,155	04/06/1999	Irie			
	FFFFFF	5,895,411	04/20/1999	Irie			
	GGGGGG	5,902,832	05/11/1999	Van Bladel et al.			

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	HHHHHH	5,922,025	07/13/1999	Hubbard			
	AIIIIIII	5,922,304	07/13/1999	Unger			
	AJJJJJJJ	5,928,626	07/27/1999	Klaveness et al.			
	KKKKKK	5,935,553	08/10/1999	Unger et al.			
	LLLLLL	5,951,160	09/14/1999	Ronk			
	MMMMMM	5,957,848	09/28/1999	Sutton et al.			
	NNNNNN	5,959,073	09/28/1999	Schlameus et al.			
	OOOOOO	6,003,566	12/21/1999	Thibault et al.			
	PPPPPP	6,015,546	01/18/2000	Sutton et al.			
	QQQQQQ	6,027,472	02/22/2000	Kriesel et al.			
	RRRRRR	6,028,066	02/22/2000	Unger			
	SSSSSS	6,047,861	04/11/2000	Vidal et al.			
	TTTTTT	6,051,247	04/18/2000	Hench et al.			
	UUUUUU	6,059,766	05/09/2000	Greff			
	VVVVVV	6,063,068	05/16/2000	Fowles et al.			
	WWWWWW	6,071,495	06/06/2000	Unger et al.			
	XXXXXX	6,071,497	06/06/2000	Steiner et al.			
	YYYYYY	6,073,759	06/13/2000	Lamborne et al.			
	ZZZZZZ	6,090,925	07/18/2000	Woiszwilllo et al.			
	AAAAAA	6,096,344	08/01/2000	Liu et al.			
	BBBBBB	6,099,064	08/07/2000	Lund			
	CCCCCC	6,099,864	08/08/2000	Morrison et al.			
	DDDDDD	6,100,306	08/08/2000	Li et al.			
	EEEEEE	6,139,963	10/31/2000	Fujii et al.			
	FFFFFF	6,149,623	11/21/2000	Reynolds			
	GGGGGG	6,162,377	12/19/2000	Ghosh et al.			
	HHHHHH	6,165,193	12/26/2000	Greene, Jr. et al.			

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	AIIIIIII	6,191,193 B1	02/20/2001	Lee et al.			
	AJJJJJJJ	6,214,331 B1	04/10/2001	Vanderhoff et al.			
	KKKKKK	6,224,794 B1	05/01/2001	Amsden et al.			
	LLLLLL	6,224,630	05/01/2001	Bao et al.			
	MMMMMM	6,235,224 B1	05/22/2001	Mathiowitz et al.			
	NNNNNN	6,238,403 B1	05/29/2001	Greene, Jr. et al.			
	OOOOOO	6,258,338	07/10/2001	Gray			
	PPPPPP	6,261,585 B1	07/17/2001	Sefton et al.			
	QQQQQQ	6,264,861 B1	07/24/2001	Tavernier et al.			
	RRRRRR	6,267,154 B1	07/31/2001	Felicelli et al.			
	SSSSSS	6,268,053 B1	07/31/2001	Woiszwillow et al.			
	TTTTTT	6,277,392 B1	08/21/2001	Klein			
	UUUUUU	2001/0016210 A1	08/23/2001	Mathiowitz et al.			
	VVVVVV	6,291,605 B1	09/18/2001	Freeman et al.			
	WWWWWW	6,306,427	10/23/01	Annonier et al.			
	XXXXXX	6,306,418 B1	10/23/2001	Bley			
	YYYYYY	2001/0001835	05/24/2001	Greene, Jr. et al.			
	ZZZZZZ	2001/0036451 A1	11/01/2001	Goupil et al.			
	AAAAAA	6,315,709	11/13/2001	Garibaldi et al.			
	BBBBBB	2001/0051670 A1	12/13/2001	Goupil et al.			
	CCCCCC	6,335,384 B1	01/01/2002	Evans et al.			
	DDDDDD	6,344,182 B1	02/05/2002	Sutton et al.			
	EEEEEE	6,394,965 B1	05/28/2002	Klein			
	FFFFFF	6,423,332 B1	07/23/2002	Huxel et al.			
	GGGGGG	6,432,437 B1	08/13/2002	Hubbard			
	HHHHHH	6,544,544	04/08/2003	Hunter et al.			
	AIIIIIII	6,602,524 B2	08/05/2003	Batich et al.			

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		Filing Date March 30, 2004	Group Art Unit 3731

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
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	MMMMM	0 422 258 A1	10/1989	Europe				X
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	WWWWW	DE 94 14 868.6	02/1995	Germany				X
	XXXXXX	DE 94 14 868.6	02/1995	Germany (abstract)			X	
	YYYYYY	DE 100 26 620 A 1	03/2002	Germany				X
	ZZZZZZ	DE 100 26 620 A 1	03/2002	Germany (abstract)			X	
	AAAAAA	4-74117	03/1992	Japan (abstract)			X	
	BBBBBB	4-74117	03/1992	Japan (full)				X
	CCCCCC	6-57012	03/1994	Japan (abstract)			X	
	DDDDDD	6-57012	03/1994	Japan (full)				X
	EEEEEE	9-110678	04/1997	Japan (abstract)			X	

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	HHHHHH	9-316271	12/1997	Japan (full)				X
	IIIIIIII	10-130329	05/1998	Japan (abstract)			X	
	JJJJJJJJ	10-130329	05/1998	Japan (full)				X
	KKKKKK	JP 2002 017848 (abstract only)	01/2002	Japan			X	
	LLLLLL	59-196738	11/1984	Japan (abstract)			X	
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	EEEEEEE	Schwarz, K.Q., "The Acoustic Filter: An Ultrasonic Blood Filter for the Heart-Lung Machine," <i>J Thoracic and Cardiovascular Surgery</i> 104(6):1647-1653 (1992)
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	OOOOOO	Tao, et al., "Study of microspheres for embolization of the hepatic artery", <i>Yao Xue Xue Bao</i> , Vol. 23, No. 1, pp. 55-60, 1988, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=3400477&dop=A , pp. 1, 2002.
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-447001	Application No. 10/814,079
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Kalpana Kamath et al.	
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	SSSSSSS	Thanoo, et al., "Preparation and Properties of Barium Sulphate and Methyl Iothalamate Loaded Poly(vinyl Alcohol) Microspheres as Radiopaque Particulate Emboli", <i>Journal of Applied Biomaterials</i> , Vol. 2, 67-72 (1991)
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	KKKKKK	Yusi et al., "Submucosal Injection of Polyvinyl Alcohol in Artificially Created Vesico-Ureteral Reflux: A Preliminary Report," <i>Asian J. Surg.</i> 18(2): 122-127 (April 1995).
	LLLLLL	Zou, Ying-hua et al., "Experimental Canine Hapatic Artery Embolization with Polyvinyl Alcohol Microspheres", <i>Zong Hua Fang-She Xue ZaZhi</i> , 1989 Dec. 23 (6): 330-332
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